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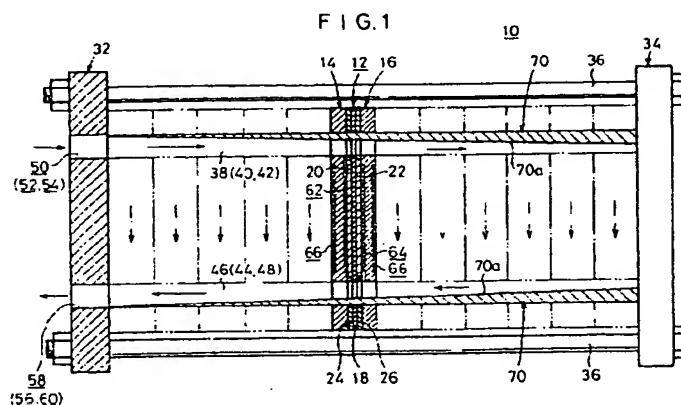
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### (54) Fuel cell stack

(57) Disclosed is a fuel cell stack comprising fuel cell units (12) and first and second separators (14, 16) which are alternately stacked with each other. Wedge members (70) are integrally inserted, over the plurality of fuel cell units (12), into communication holes of a fuel gas supply passage (38), an oxygen-containing gas supply passage (40), and a cooling water supply passage (42), as well as a fuel gas discharge passage (44), an oxygen-

containing gas discharge passage (46), and a cooling water discharge passage (48). A fluid is uniformly delivered to each of the fuel cell units (12) by the aid of the wedge members (70). Accordingly, the fluid of any one of a fuel gas, an oxygen-containing gas, and a cooling medium is uniformly delivered to each of the fuel cell units (12). Further, it is possible to simplify the arrangement of the fuel cell stack.





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# EUROPEAN SEARCH REPORT

Application Number  
EP 99 30 8499

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The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>24 January 2001</b>	Examiner <b>D'hondt, J</b>
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

FIG. 8

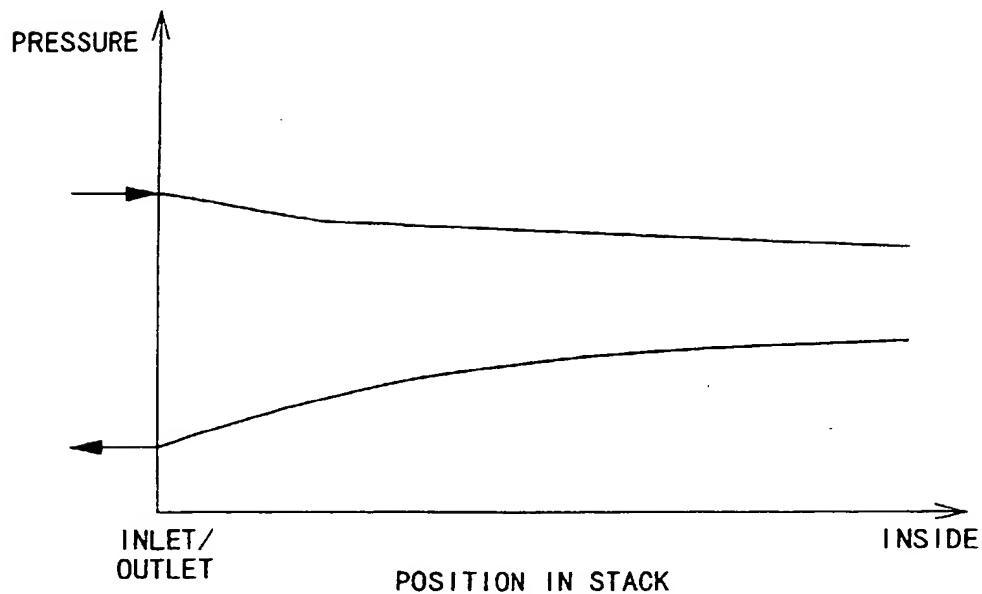


FIG. 9

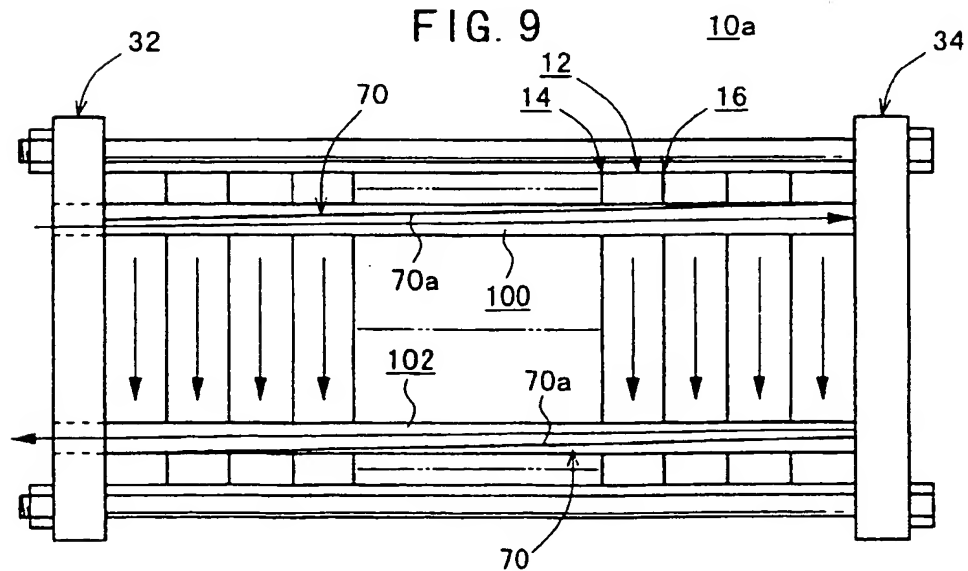


FIG. 10

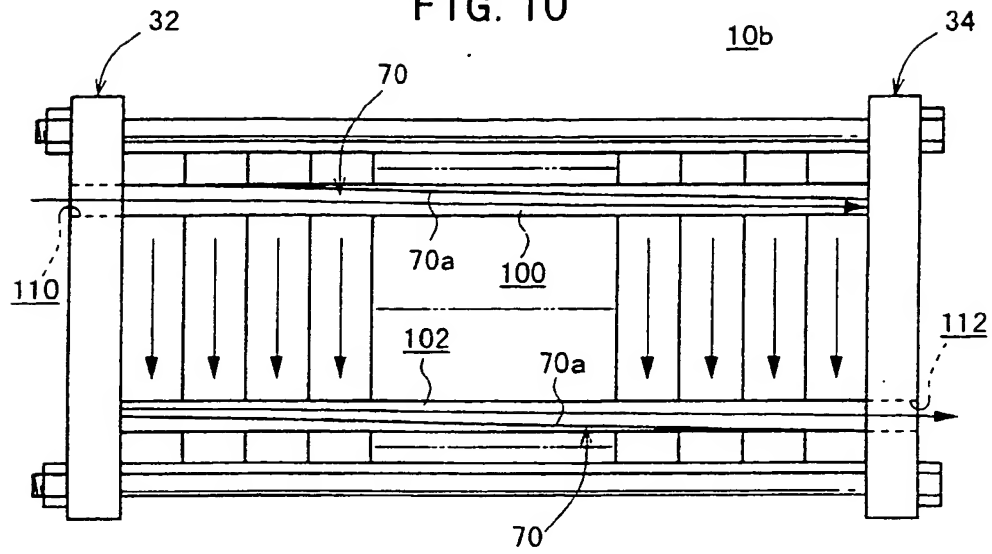


FIG. 11

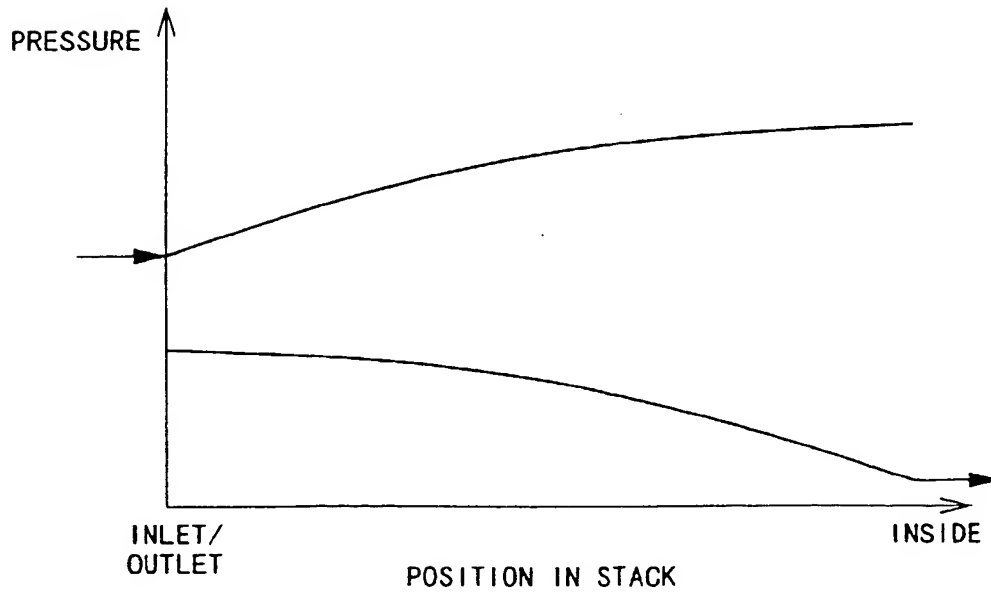


FIG. 12

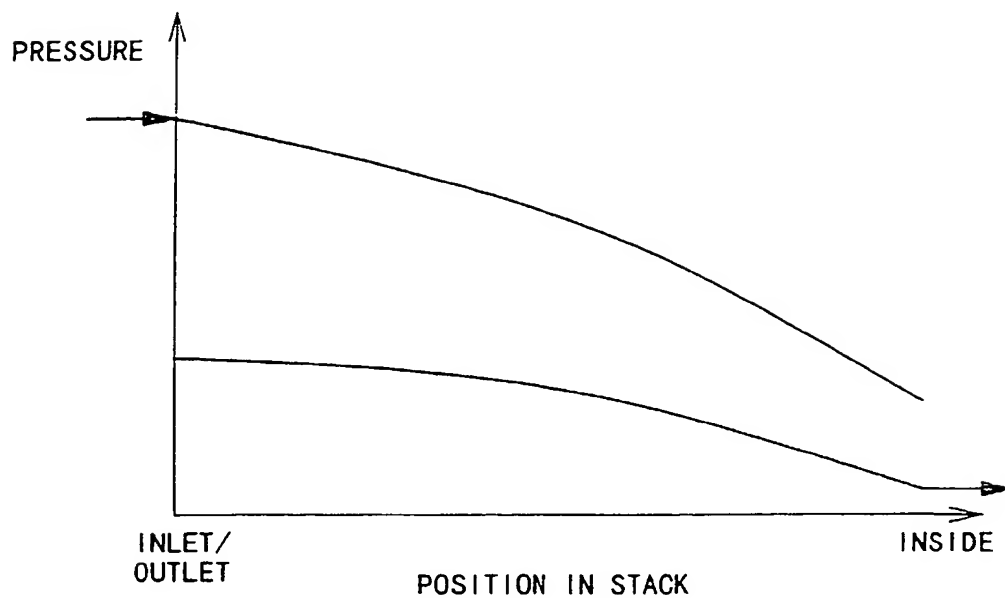
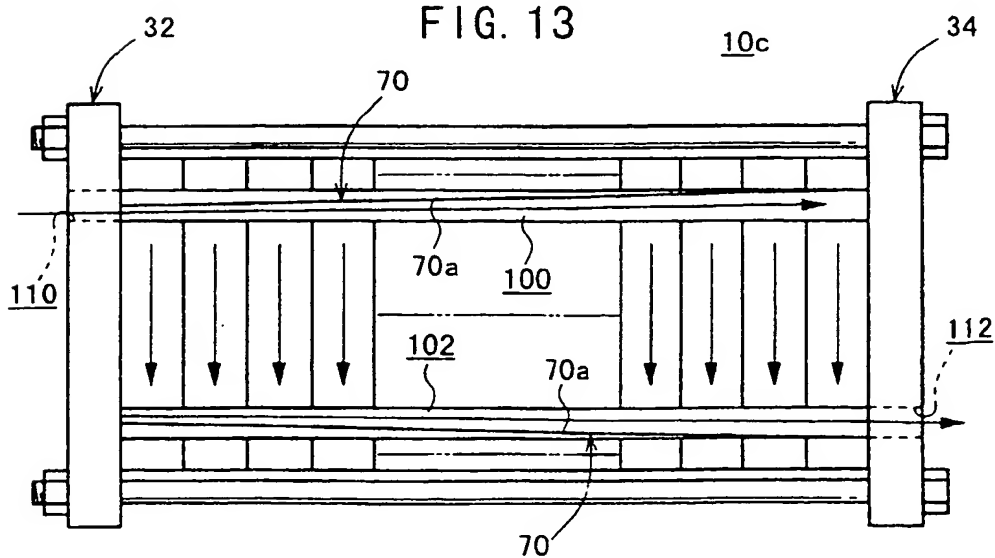


FIG. 13



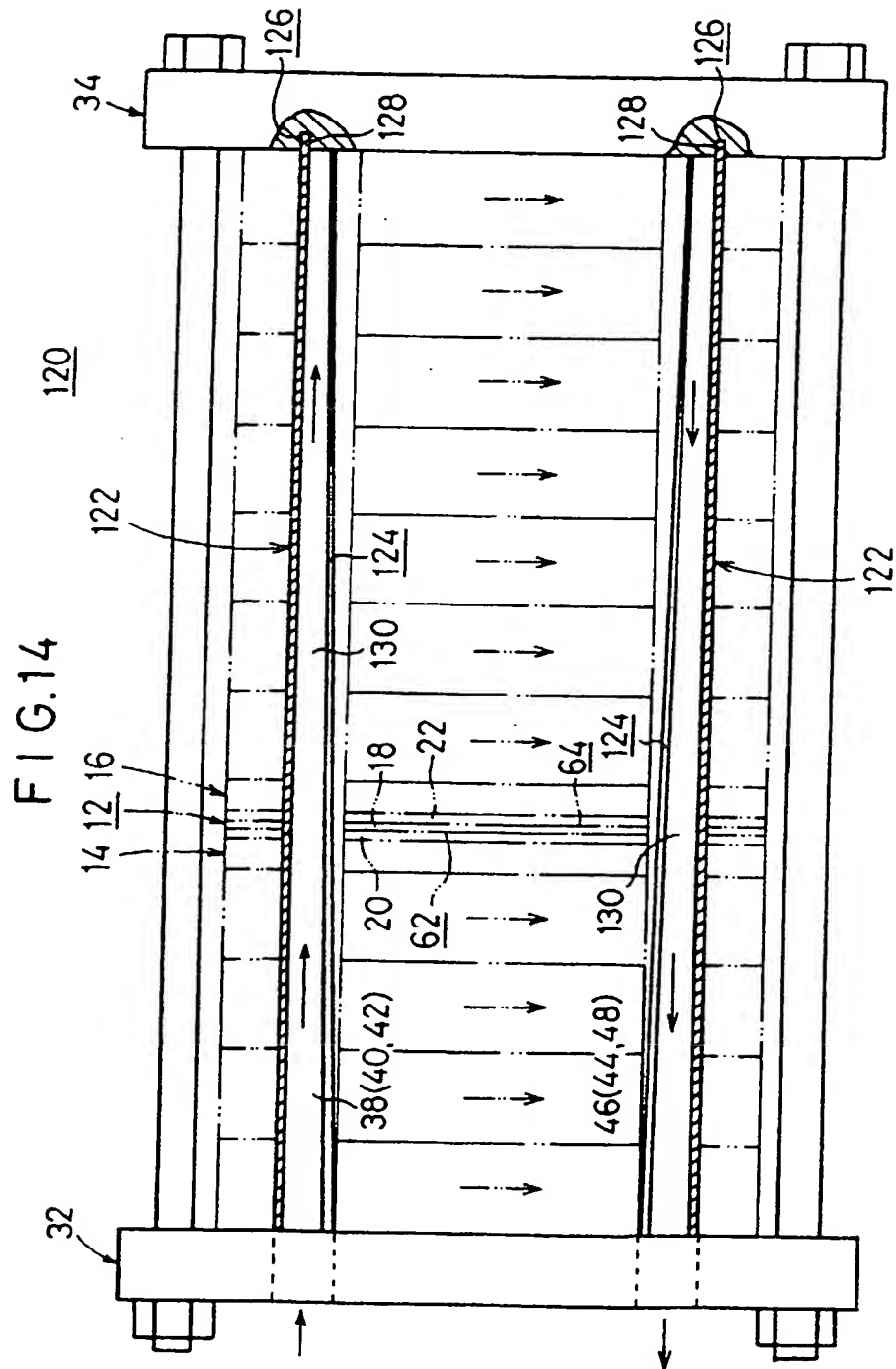




FIG.15

